FIG.1

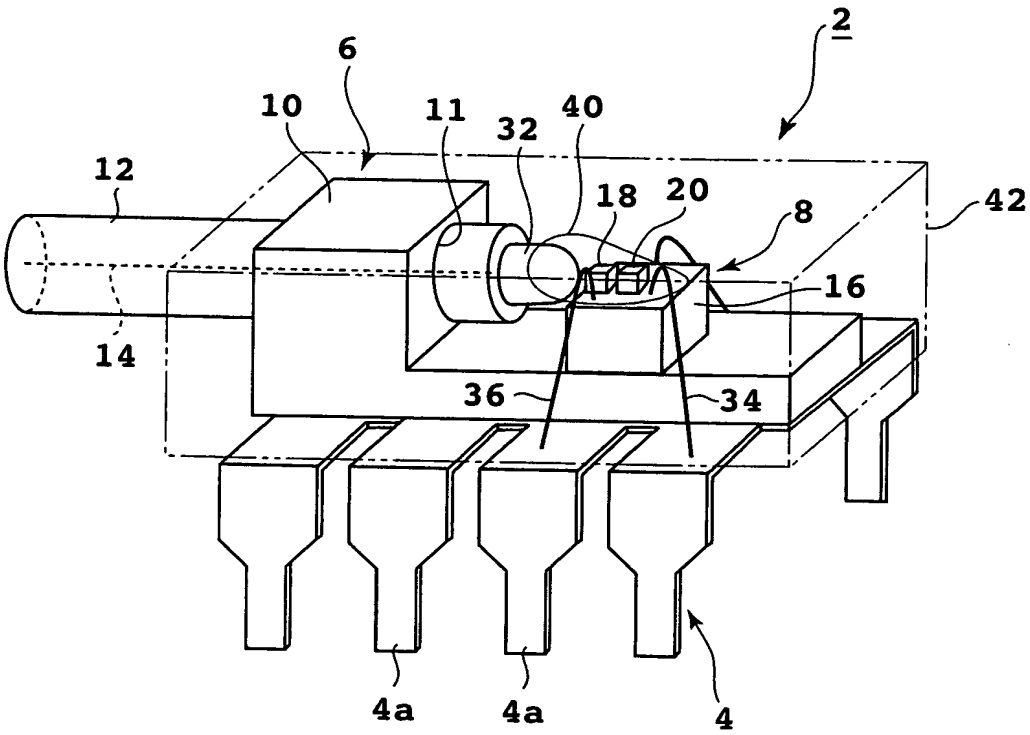


FIG.2

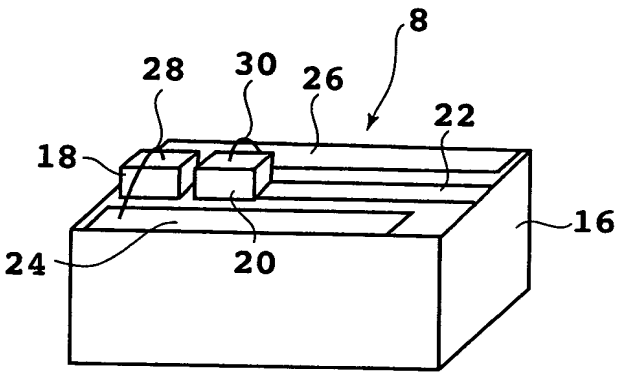


FIG.3

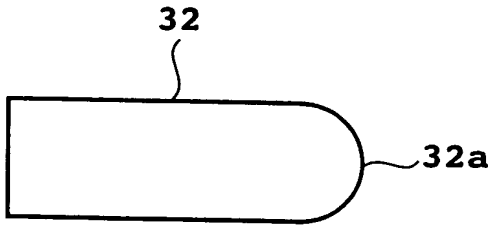


FIG.4

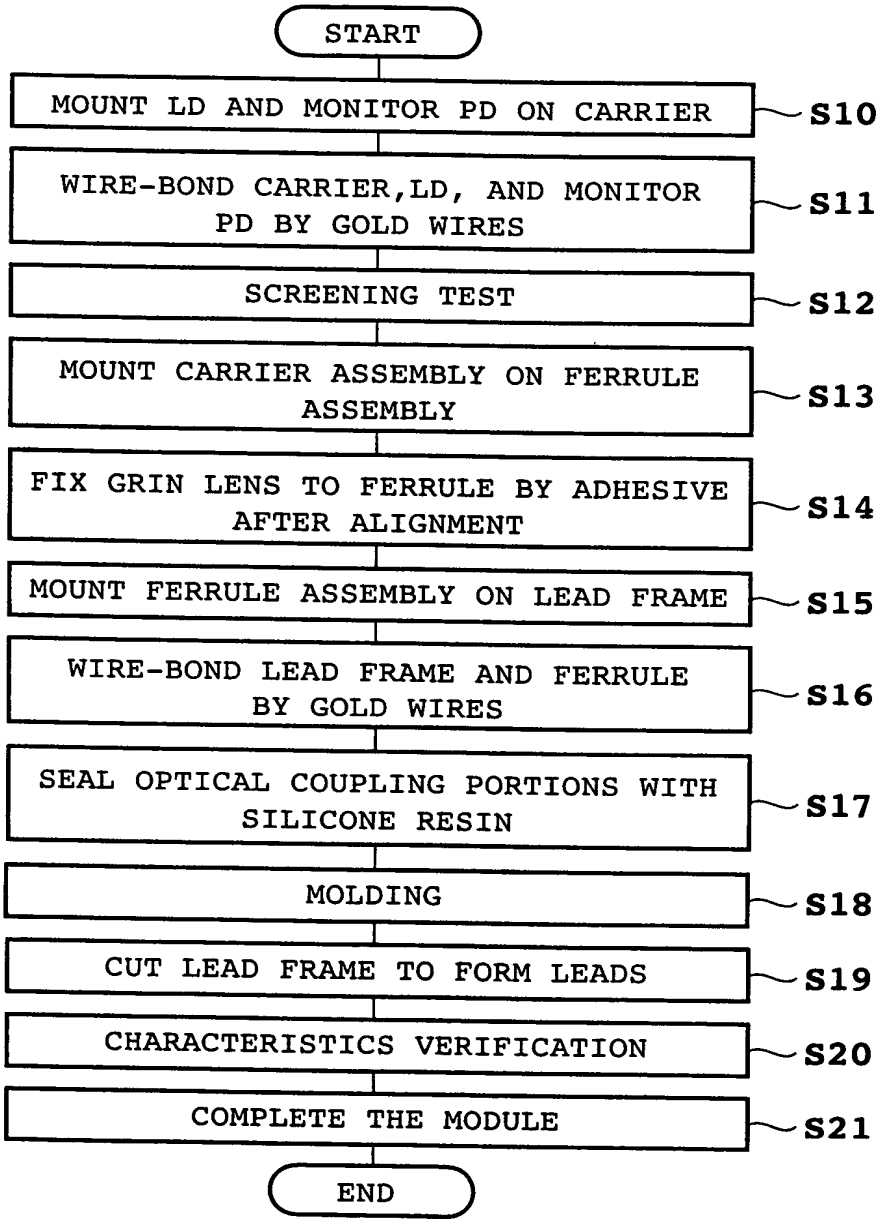

START
MOUNT LD AND MONITOR PD ON CARRIER
S10
WIRE-BOND CARRIER,LD, AND MONITOR PD BY GOLD WIRES
S11
SCREENING TEST
S12
MOUNT CARRIER ASSEMBLY ON FERRULE ASSEMBLY
S13
FIX GRIN LENS TO FERRULE BY ADHESIVE AFTER ALIGNMENT
S14
MOUNT FERRULE ASSEMBLY ON LEAD FRAME
S15
WIRE-BOND LEAD FRAME AND FERRULE BY GOLD WIRES
S16
SEAL OPTICAL COUPLING PORTIONS WITH SILICONE RESIN
S17
MOLDING
S18
CUT LEAD FRAME TO FORM LEADS
S19
CHARACTERISTICS VERIFICATION
S20
COMPLETE THE MODULE
S21
END

FIG.5

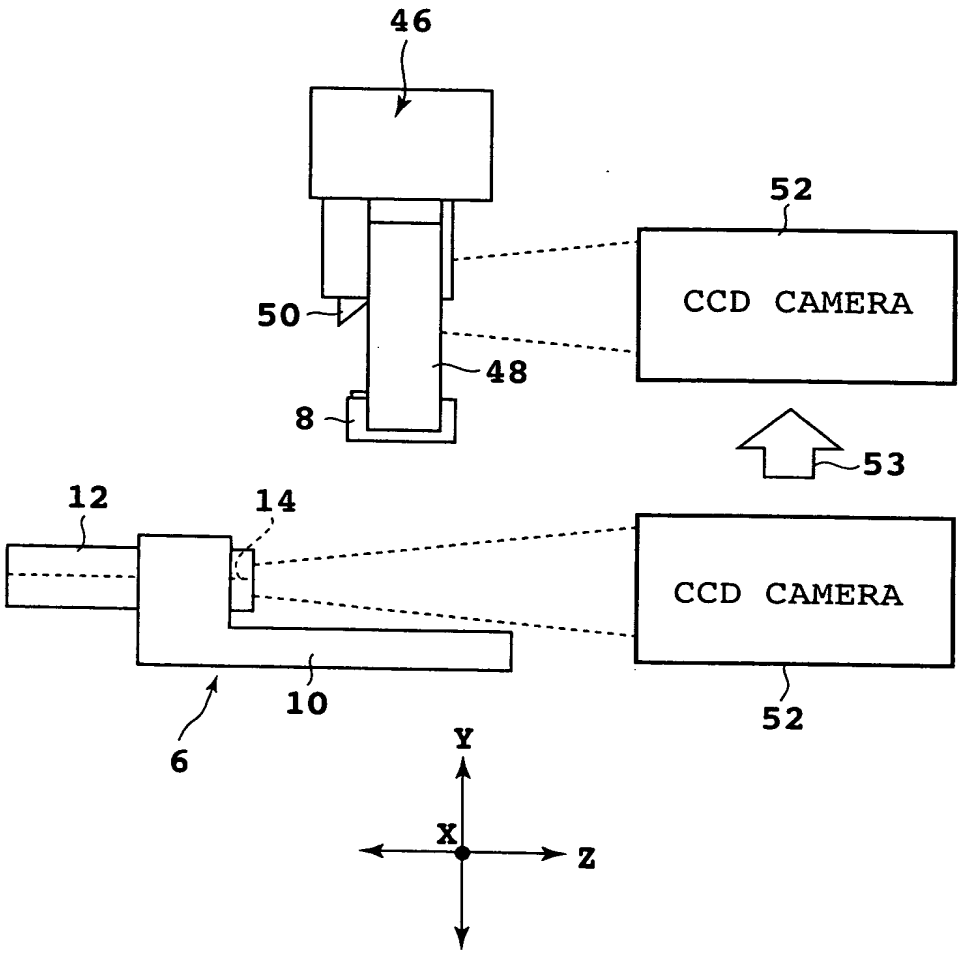


FIG.6

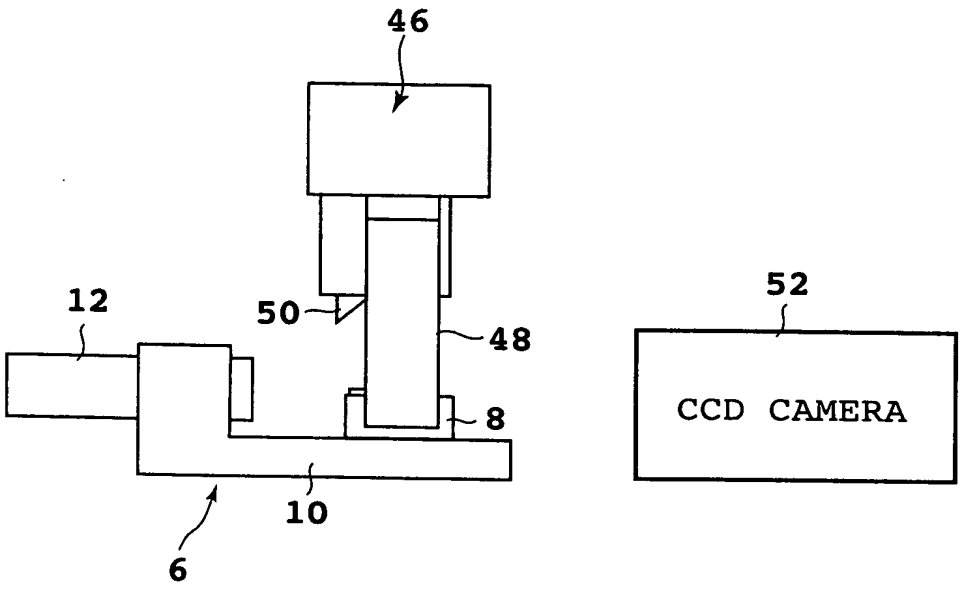


FIG.7A

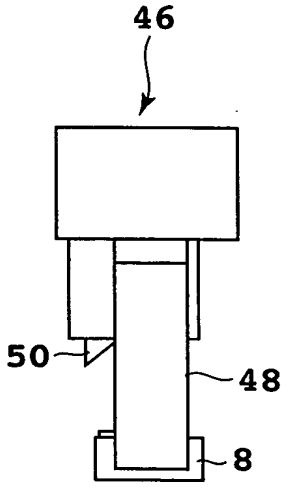


FIG.7B

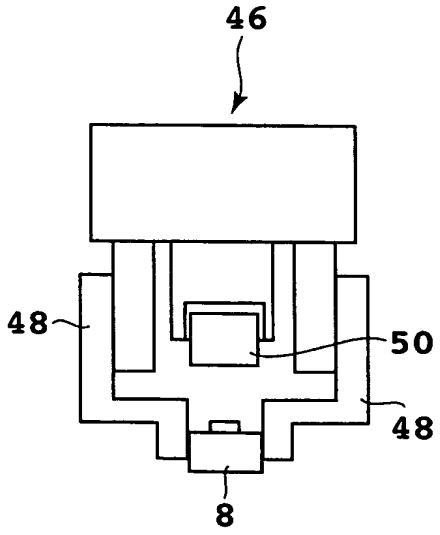


FIG.8

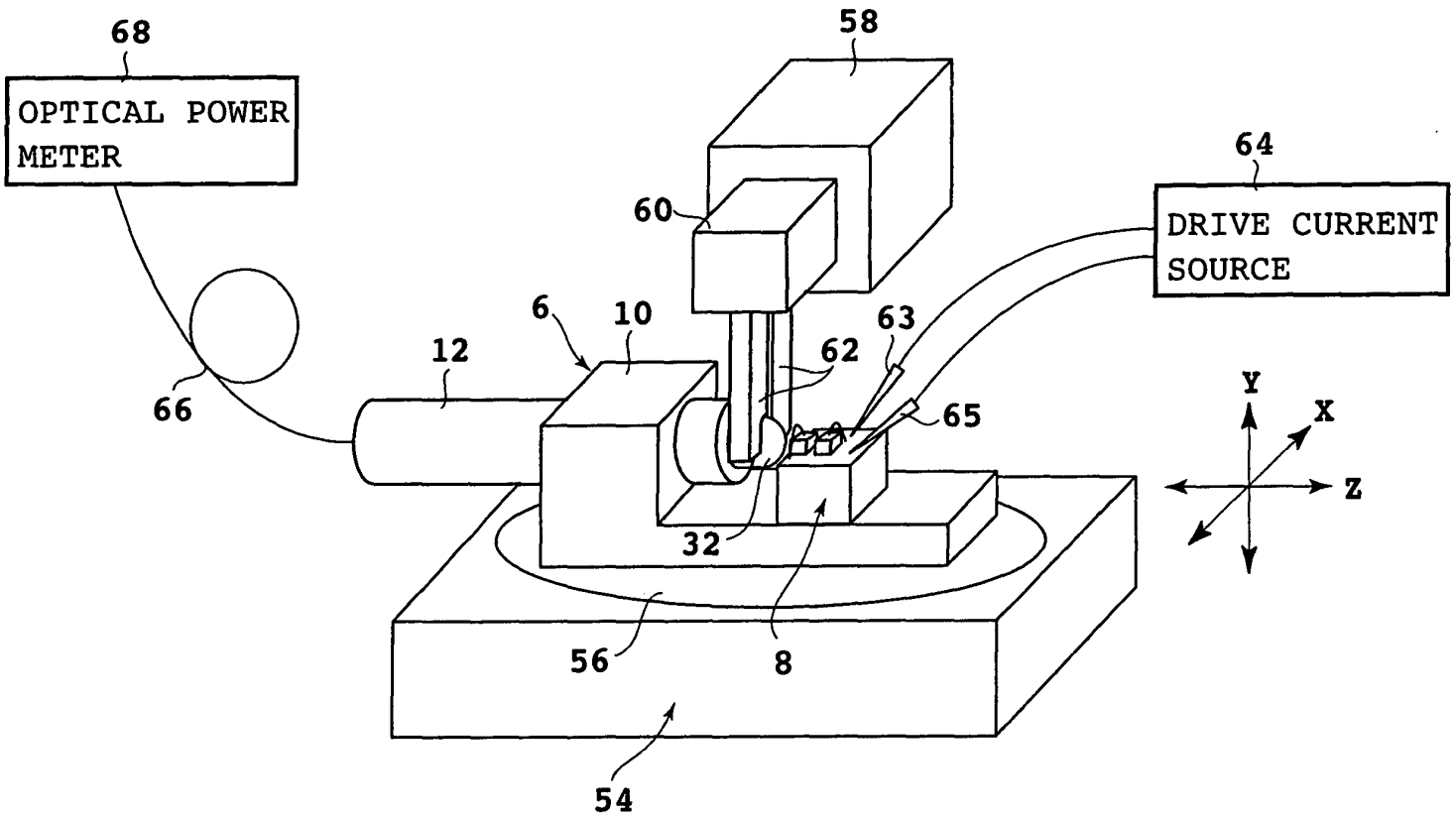

68
OPTICAL POWER METER
58
64
DRIVE CURRENT SOURCE
60
6
10
12
62
63
65
66
Y
X
Z
32
56
8
54

FIG.9A

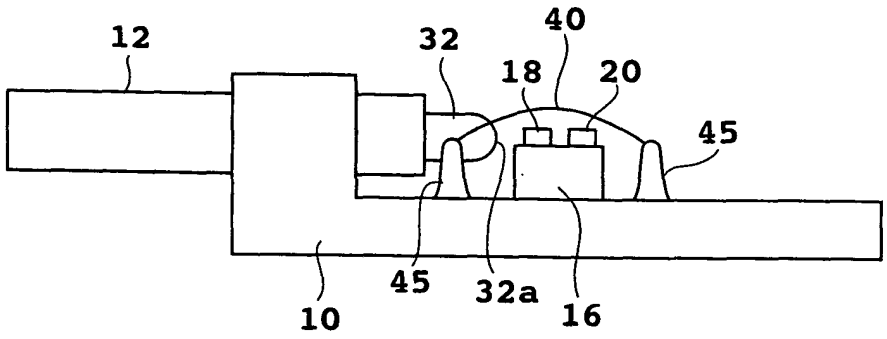
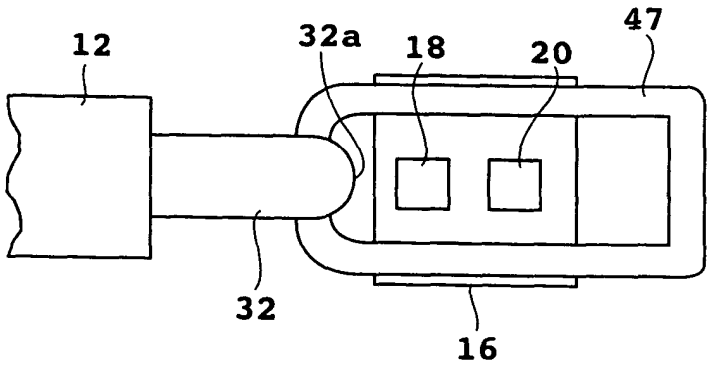


FIG.9B



20FF0" E23h0F

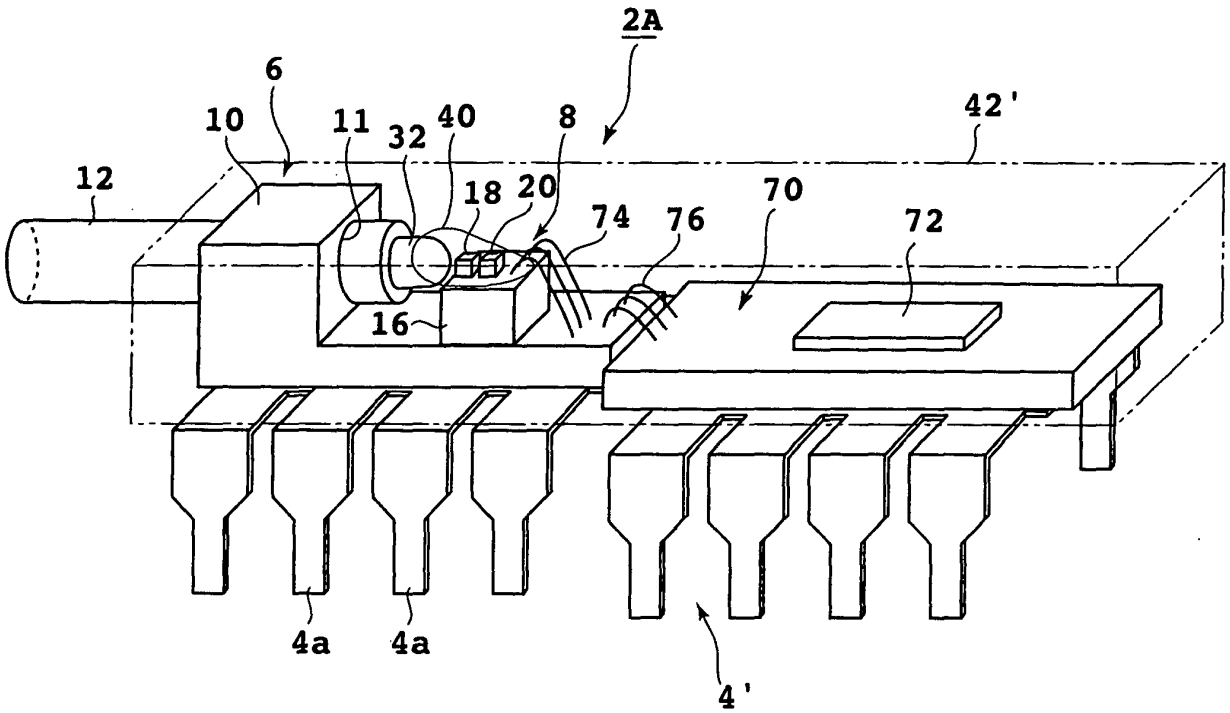



FIG.10